CA - PMM

Project Name: Integrated Emergency Communications

OCIO Project #:

Department: Ca Air Resources Board

Revision Date:

Concept Statement

Description

Brief description of the proposed project:
The ARB and Cal/EPA propose to implement a tool that would facilitate and streamline effective emergency communication and data management internally and laterally within Cal/EPA and sister response agencies. The solution will replace the existing response information management system (RIMS) and will more thoroughly integrate and enhance interagency response communications between all levels of government, helping to ensure the highest levels of efficiency and interoperability for managing emergency communications.

Need Statement

High Level Functional Requirements:
Provide integrated data transfer and communication for multiple state agencies during an emergency. The system must support a centralized location for communicating resource needs during a disaster; transfer relevant data and communicate status; data retention of a minimum of 5 years with archive capabilities; high availability with redundancy; web based; flexible to support multiple data types (video, air quality data, interactive maps and status reports); tracking capability both real-time and for historical forensics.

What is Driving This Need?
The existing system used and supported by CalEMA (RIMS) is outdated, inefficient; difficult to use and does support all the functionality of the Cal/EPA Boards and Departments BDOs. In addition, the existing substitute system used as an ARB intranet does not have cross-platform capabilities with other BDOs.

Risk to the Organization if This Work is Not Done:
Cal/EPA will be unable to provide information to impacted communities and other emergency response entities during an emergency quickly and efficiently, impacting Health and Human Safety. The failure to have updated systems in place makes coordination between emergency response agencies extremely difficult.

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Benefit Statement

Intangible Benefits

Process Improvements (describe the nature of the process improvement):

Improving response times during emergencies; improving the use of the state's and local agency's emergency resources (human resources, emergency equipment, monitoring tools, vehicles, labs and toxicology); and streamlining communication between multiple organizations.

Other Intangible Benefits:

This tool, once established could be expanded to support internal ARB and/or Cal/EPA emergency response in support of COOP/GOG.

Tangible Benefits

Revenue Generation (describe how revenue will be generated):

N/A

Cost Savings (describe how cost will be reduced):

The system will enable sharing and of existing resources, limiting the need to purchase redundant equipment by maximizing the return on the state's investment in emergency response equipment and personnel. Higher efficeincies achieved will also reduce the need for costly procurements of resources under emergency conditions, when these resources are priced at a premium.

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Cost Avoidance (describe the cost and how avoided):
The expected increases in collaboration and sharing of resources is expected to decrease the purchase of unnecessary equipment.

Risk Avoidance (describe the risk and how avoided):
Establishing improved communication tools will mitigate the risk associated to ineffective communication during an emergency response. Well planned and designed systems that are easily accessible via the web will mitigate the risk of not being able to log in and share data when and where needed.

Improved Services:
The updated system will greatly improve the emergency response services provided to the public. For example, public health data or air monitoring data that is used to determine the scope of evacuation required; the protection of sensitive populations; and determining the safety of returning to the affected area.

Consistency

"No" Responses →		Rationale	Action Required
Enterprise Architecture	Yes		
Business Plan	Yes		
Strategic Plan	Yes		

Impact to Other Entities

Nature of Impact to Other Entities

Entity:
Describe the nature of the impact:
ARB: The system will have a positive impact on the ARB in that it will provide an easy to use and effective method of communicating, sharing and collaborating vital air quality data during an emergency.

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collaborating vital air quality data during an emergency?

Entity:
Describe the nature of the impact:
Cal/EPA: The system will have a positive impact on the Cal/EPA as a whole in that it will improve the ability to communicate and respond with environmental data collectively. In addition, the system can be used to provide cross-BDO collaboration during emergency events that impact the headquarters building and other agency assets

Entity:
Describe the nature of the impact:
State of California: The system will have a positive impact on the ability to communicate and respond to emergencies that require collaboration across state agencies or emergency response or health organizations, as wellas at the local and federal response levels.

Entity:
Describe the nature of the impact:
Air Districts, Local Health Agencies and the Public: The system will benefit from more expeditors access to emergency support and response from ARB, Cal/EPA and other state Agencies that utilize the system.

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Solution Alternatives

Alternative 1:
Tailor an off-the-shelf software package that is frequently used by emergency organizations now.

Technical Considerations for Alternative 1:				
During the FSR analysis phase a more detailed listing of technical and functional requirements will be outlined. At a high level, the alternatives will be weighed on their ability to meet requirements such as adaptability to				
ROM Cost:	$90,000	to	$135,000	**Note: high end of range must not exceed 200% of low end of range**

Alternative 2:
Participate with CalEMA to develop a improved system.

Technical Considerations for Alternative 2:			
No system is in development. This solution will not have the benefit of meeting the internal requirements of Cal/EPA BDOs and the timeframes to implements put Cal/EPA at risk of not meeting necessary business objectives.			
ROM Cost:	to		**Note: high end of range must not exceed 200% of low end of range**

Alternative 3:
Develop a low cost solution to support ARB only (Google Net, SharePoint).

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Technical Considerations for Alternative 3:		
Although this system would be better than what is available at the time, it would not benefit the public or other state agencies.		
ROM Cost:	to	**Note: high end of range must not exceed 200% of low end of range**

Recommendation

Comparison:

Alternative 1	ROM Cost	Risk
	-	*minimal*
Alternative 2	**ROM Cost**	**Risk**
	$0 - $0	
Alternative 3	**ROM Cost**	**Risk**
	$0 - $0	

Conclusions:

1	More in depth analysis is required to determine exact costs
2	
3	
4	

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Recommendation:

Establish a cooperative development and implementation team within Cal/EPA to complete the analysis and planning stages of this project and implement a system using off the shelf software tailored to meet the needs of Cal/EPA.

Project Approach *(if known)*

System Complexity:				System Business Hours: *(e.g., 24x7, 9am-5pm) :*	24x6	
Architecture	☐ Mainframe	☐ Client Server	☑ Web Based		Num. of New Databases:	
Technology	☐ New	☑ New to Staff	☐ In-House Experience		Interfaces:	
Implementation	☐ Central Site	☑ Phased Roll-out			Num. of Sites:	
M & O Support	☐ Contractor	☐ Data Center	☐ Project	☑ In House		
Procurement Approach: To be determined					Number of Procurements:	
Open Procurement?	Yes	Delegated Procurement?				
Scope of Contract	☑ Development	☑ Implementation	☑ M & O	☑ Other:		
Anticipated Length of Contract:	Years /	extensions for	years			